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				February 24, 1954	
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	Subject:	Altitude check	c for RS-6 equ	ipment)	
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MEHO TO:		25X1
FROM:		25X1

SUBJECT: Altitude Check of RS6 Equipment.

About a week age I placed one complete R56 equipment together with a meter driven layer in the Tenney chamber located in the Compenents test laboratory and submitted the system to the following conditions:

- A. Altitude: Sea level.

 Temperature: 75° F.

 System put into operation and keyed automatically at 10 words per minute.
- B. Altitude: Raised to 20,000 feet.
 Temperature: Remains same at 75° F.
 System was kept in operation while chamber was brought up to 20,000 feet. System kept at 20,000 feet for one hour. No change in either power output or wave form was observed.
- C. The system was turned off and the refrigeration unit was turned on. After about one hour the temperature reached -35° F. and the altitude 15,000 feet. The system was again turned on. Power output was still within limits but no keying wave form could be observed because the motor on the automatic keyer had freeze.
- D. The altitude was dropped back to sea level and the temperature raised slowly to -10°F. The keyer was put back into operation and no significant change in wave form was observed.
- E. Altitude raised to 20,000 feet in three (3) m imutes; output and wave form both satisfactory.
- F. Chamber held at 20,000 feet for 10 minutes. Temperature was 0° F; output and wave form both satisfactory.
- G. Reduce altitude to see level in three (3) minutes. Temperature 75° F.

 No significant change in wave form and power output still within limits.

It was noted that throughout all steps of the test the power output varied by no more than 20%. However, when the altitude chamber was at sea level pressure and the units were accessible so that the tank circuits of the transmitter could be readjusted the power output changes seemed to be no greater than 10%

After completion of the test all of the units were examined mechanically and no evidence of capacitor leakage or other damage was found.

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